

**4th Annual LRS Science Symposium
USGS Flagstaff Field Center
March 11-12, 2008**

Day One March 11

- 08:00 **Set up Posters/Registration**
08:30 **Bruce Quirk** Welcome
08:45 **Ed Pfeifer** – Logistical issues
09:00 **Bruce Jones** - Geography Discipline Chief Scientist: Comments and Research Initiatives, Goals, and Objectives

09:20 **Bruce Quirk** – Overview of the LRS Program and Mission
09:40 **Ben Jones** – LRS Science in Alaska
10:00 **Terry Sloneker** – Hyperspectral Analysis of Vegetation Affected by Heavy Metals

10:20 Break

Oral Presentations

- 10:40 **Daniel Steinwand** - Exploring the Landsat Archive – Algorithms for Mining Multi-Band, Time-Series Imagery
11:00 **Tom Loveland** – Landsat Data Continuity Mission: Continuing Three Decades of Earth Imaging
11:20 **Jim Lacasse** – Landsat Project
11:40 **Michael Breedlove** – Spatial modeling of near shore habitats, Grand Canyon

12:00-13:30 Lunch

Oral Presentations

- 13:20 **Yingxin Gu** - Evaluation and validation of MODIS NDVI and NDWI for vegetation drought monitoring over the central Great Plains of the United States
13:40 **Thomas K. Maersperger** - Supporting Operational Monitoring of Broad-scale Vegetation Phenomena with eMODIS
14:00 **Jason Stoker** - Utilizing the USGS Center for Lidar Information Coordination and Knowledge (CLICK) Data for National Applications
14:20 **Mike Hutt** - An Overview of Unmanned Aerial Systems- developments, capabilities, constraints and potential applications

14:45 Break

Oral Presentations

- 15:00 **Lori Baer** - Research and Development of Methods for Extracting Disturbed Areas and Critical Infrastructure for the Wyoming Landscape Conservation Initiative
- 15:20 **Jeff Sloan** - The Use of CAP ARCHER Hyperspectral Imagery for Forest Health and Multi-Stage Pine Mortality
- 15:40 **Carol Mladinich** - ARCHER Imagery: from search and rescue to emergency response – experiences and challenges
- 16:00 **Bruce Quirk** - Closing Remarks
- 16:15 **Ed Pfeifer** – Poster Session

16:30 -19:00 PM Poster Session (Wine and Cheese)

Day Two March 12

- 08:30 **Bruce Quirk** – Comments on March 11th proceedings
- 08:45 **Ed Pfeifer** – Any additional logistical issues

Oral Presentations

- 09:10 **John Jones** – Remote Sensing components of Eastern Region land cover dynamics research
- 09:30 **Fred Irani** – Land cover monitoring and modeling in the Chesapeake Bay watershed
- 10:00 **Rebecca Dodge** - A State-Based Remote Sensing Initiative Developing Remote Sensing Applications through Education, Training, Internships, and Pilot Projects

- 10:20 **Break**

- 10:40 **Pamela Nagler** - Monitoring the Impacts of *Tamarisk* Defoliation on the Dolores River Using Remote Sensing
- 11:00 **Elizabeth Lile** – Web-based mapping applications in response to wildland fires
- 11:20 **Jeff Sloan** – Mapping, monitoring, and researching effects of climate change in Alaska
- 11:40 **Lori Baer** - Basin-wide Land Cover Mapping to Support the Great Basin Integrated Landscape Monitoring Pilot

- 12:00** Closing Remarks – Bruce Quirk
 Ed Pfeifer Field Trip Logistics
 Adjourn Symposium

- 14:30 LRS Science Planning meeting

18:30 Adjourn

Day 3 Field Trip to Grand Canyon

08:30 Leave Flagstaff Facility

12:00 Lunch in the field

16:00 Return to Flagstaff Facility and Adjourn